

Appl. No. 10/782,720
Amdt. dated March 27, 2006
Reply to Office Action mailed September 26, 2005

Amendments to the Specification:

Please replace the paragraph appearing at page 2, line 21 through page 3, line 4 with the following amended paragraph:

The present invention provides a sensor for temperature and gas detection comprising a sol gel nanodisk fabricated between conducting electrodes. The sol gel nanodisk is a ~~[[a]]~~ semi-crystallized structure having surface oxygen ions and the electrodes are any conducting material, preferably a metal. The sensor is fabricated on an insulating substrate and ~~the~~ the sol gel nanodisk preferably has a width of about 4 μ M and a length of about 5 μ M. The sensor may be composed of many sol gel nanodisks fabricated between conducting electrodes on a single substrate.